



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/538,262

02/06/2006

Hiroyuki Hidaka

81887.0126

3227

26021 7590 07/02/2008
HOGAN & HARTSON L.L.P.
1999 AVENUE OF THE STARS
SUITE 1400
LOS ANGELES, CA 90067

EXAMINER

ZEWARI, SAYED T

ART UNIT

PAPER NUMBER

2617

MAIL DATE

DELIVERY MODE

07/02/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/538,262	Applicant(s) HIDAKA, HIROYUKI	
	Examiner SAYED T. ZEWARI	Art Unit 2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 April 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. Applicant's arguments filed on 4/4/2008 have been fully considered but they are not persuasive.
2. Applicant argues that ***"Uchida is thus directed to the wired communication between database 11 and base stations 23-26 (see Uchida FIG.2)"*** This argument is not persuasive. Uchida discloses a wireless communication system as is evident from the figure 2 and applicant's own admission on page 12. Applicant admits that Uchida's communication system is a cellular system by pointing out to the mobile terminal, base stations, and mobile switching center which are all inherent part of a wireless communication system. So applicant's argument above is not persuasive because Uchida's communication is directed to wireless communication system.
3. Applicant argues that ***"...the present invention determines a transmission rate in the wireless communication and not the transmission rate of the wired communication..."*** This argument is not persuasive. So does Uchida. . Applicant admits that Uchida's communication system is a cellular system by pointing out to the mobile terminal, base stations, and mobile switching center which are all inherent part of a wireless communication system. Applicant further admits, on page 12, that Uchida ***"...set a transmission rate of communication data transmitted/received between the mobile station 16 and so on and the database 11 and the like..."*** Therefore

Uchida, by applicant's own admission, discloses a mobile communication system that sets the transmission rate of communication system between a mobile and base station.

4. Applicant argues that ***"The base station of Uchida does not notify the wireless communication terminal the transmission rate of the base station"*** This argument is not persuasive. Uchida disclose this limitation. In fact, applicant admits on page 12 that Uchida ***"...set a transmission rate of communication data transmitted/received between the mobile station 16 and so on and the database 11 and the like..."***

5. Applicant argues that ***"...Uchida discloses only that the mobile switching center changes a transmission rate of communication data transmitted from the communication apparatus to the mobile station..."*** This argument is not persuasive. The communication takes place between mobile terminal and the base station. So even if the transmission rate changes occur somewhere else, still the intention and the effect is the transmission rate change between the base station and mobile terminal.

6. Applicant argues that ***"Instead, the communication terminal of Uchida initiates a request for change in transmission rate, and not the transmission rate required by the wireless communication terminal"*** This argument is not persuasive. The reason that the communication terminal of Uchida requests for change in transmission rate is that it is required by it.

7. Therefore, the references applied to the claims disclose all the limitations of the claims of the applicant.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 1-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Uchida et al. (US 6,745,049) in view of Hashem et al. (US 6,701,129).

With respect to claim 1, Uchida discloses a wireless communication system configured from a wireless base station and a wireless communication terminal (**See Uchida's figure 1 and 2, col.9 lines 37-67**), wherein a wireless communication line is set between the wireless base station and the wireless communication terminal (**See Uchida's figure 1 and 2, col.9 lines 37-67**), the wireless base station comprises: a wireless base station transmission rate notify section that notifies the wireless communication terminal of a transmission rate that enables to be supported by the wireless base station on the wireless communication line from the wireless communication terminal to the wireless base station (**See Uchida's col.2 lines 14-67**), an inherent transmission rate determination section that determines a transmission rate on the wireless communication line from the wireless communication terminal to the wireless base station based on a result of comparing the transmission rate notified from the wireless base station with the transmission rate stored in the storage section (**See**

Uchida's figure 7, col.9 lines 4-5 where the mobile station requests rate change).

However, Uchida does not specifically disclose the wireless communication terminal comprises: a storage section that stores a transmission rate required by the wireless communication terminal on the wireless communication line from the wireless communication terminal to the wireless base station. But Hashem disclose a wireless terminal with storage section whereat least one transmission parameters are stored **(See Hashem's col.3 lines 57-67)**. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the invention of Uchida and combine with Hashem, thereby providing a system wherein transmission parameters are stored in wireless terminal, as disclosed by Hashem **(See Hashem's col.3 lines 57-67)**.

With respect to claim 6, Uchida discloses a wireless communication terminal, wherein a wireless communication line is set between a wireless base station and the wireless communication terminal **(See Uchida's figure 1 and 2, col.9 lines 37-67)**, comprising: a transmission rate information acquisition section that receives a transmission rate that enables to be supported by the wireless base station on the wireless communication line from the wireless communication terminal to the wireless base station, notified from the wireless base station **(See Uchida's figure 7, col.9 lines 4-5 where the mobile station requests rate change)**; a transmission rate comparison section that compares the transmission rate notified from the wireless base station with the transmission rate stored in the storage section **(See Uchida's figure 7, col.9 lines 4-5 where the mobile station requests rate change)**; and an inherent transmission

rate determination section that determines a transmission rate on the wireless communication line from the wireless communication terminal to the wireless base station based on a comparison result of the transmission rate comparison section (**See Uchida's figure 7, col.9 lines 4-5 where the mobile station requests rate change**). However, Uchida does not specifically disclose the wireless communication terminal comprises: a storage section that stores a transmission rate required by the wireless communication terminal on the wireless communication line from the wireless communication terminal to the wireless base station. But Hashem disclose a wireless terminal with storage section whereat least one transmission parameters are stored (**See Hashem's col.3 lines 57-67**). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the invention of Uchida and combine with Hashem, thereby providing a system wherein transmission parameters are stored in wireless terminal, as disclosed by Hashem (**See Hashem's col.3 lines 57-67**).

With respect to claim 7, Uchida discloses a wireless communication terminal, wherein a wireless communication line set between a wireless base station and the wireless communication terminal (**See Uchida's figure 1 and 2, col.9 lines 37-67**), comprising: a terminal transmission rate notify section that notifies the wireless base station of a transmission rate required by the wireless communication terminal on the wireless communication line from the wireless communication terminal to the wireless base station when the wireless base station and the wireless communication terminal exchange their mutual state information (**See Uchida's col.2 lines 14-67,)**; and a

wireless base station transmission rate broadcast section that notifies the wireless communication terminal of a transmission rate that enables to be supported by the wireless base station on the wireless communication line from the wireless communication terminal to the wireless base station **(See Uchida's col.2 lines 14-67)**, a transmission rate determination section that determines a transmission rate on the wireless communication line from the wireless communication terminal to the wireless base station based on a determination result as to whether or not the wireless base station enables to support the transmission rate notified from the wireless communication terminal **(See Uchida's figure 7, col.9 lines 4-5 where the mobile station requests rate change)**.

With respect to claim 11, Uchida discloses a wireless base station, wherein a wireless communication line is set between the wireless base station and a wireless communication terminal **(See Uchida's figure 1 and 2, col.9 lines 37-67)**, for performing communications, comprising: a wireless base station transmission rate notify section that notifies the wireless communication terminal of a transmission rate that enables to be supported by the wireless base station on the wireless communication line from the wireless communication terminal to the wireless base station **(See Uchida's col.2 lines 14-67)**.

With respect to claim 12, Uchida discloses a transmission rate control method of a wireless communication system configured from a wireless base station and a wireless communication terminal, wherein a set between the wireless base station and the wireless communication terminal **(See Uchida's figure 1 and 2, col.9 lines 37-67)**,

the transmission rate control method includes the steps in which: the wireless base station notices the wireless communication terminal of a transmission rate that enables to be supported by the wireless base station on the wireless communication line from the wireless communication terminal to the wireless base station **(See Uchida's col.2 lines 14-67)**; the wireless communication terminal determines a transmission rate on the wireless communication line from the wireless communication terminal to the wireless base station based on a result of comparing the transmission rate notified from the wireless base station with the transmission rate stored in the wireless communication terminal **(See Uchida's figure 7, col.9 lines 4-5 where the mobile station requests rate change)**. However, Uchida does not specifically disclose the wireless communication terminal stores a transmission rate required by the wireless communication terminal on the wireless communication line from the wireless communication terminal to the wireless base station. But Hashem disclose a wireless terminal with storage section whereat least one transmission parameters are stored **(See Hashem's col.3 lines 57-67)**. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the invention of Uchida and combine with Hashem, thereby providing a system wherein transmission parameters are stored in wireless terminal, as disclosed by Hashem **(See Hashem's col.3 lines 57-67)**.

With respect to claim 13, Uchida discloses a transmission rate control method of a wireless communication system configured from a wireless base station and a wireless communication terminal **(See Uchida's figure 1 and 2, col.9 lines 37-67)**,

wherein a wireless communication line is set between the wireless base station and the wireless communication terminal **(See Uchida's figure 1 and 2, col.9 lines 37-67)**, the transmission rate control method includes the steps in which: the wireless communication terminal notifies the wireless base station of a transmission rate required by the wireless communication terminal on the wireless communication line from the wireless communication terminal to the wireless base station when the wireless base station and the wireless communication terminal exchange their mutual state information **(See Uchida's figure 7, col.9 lines 4-5 where the mobile station requests rate change)**; the wireless communication terminal determines a transmission rate on the wireless communication line from the wireless communication terminal to the wireless base station **(See Uchida's figure 7, col.9 lines 4-5 where the mobile station requests rate change)**; the wireless base station determines whether or not the transmission rate notified from the wireless communication terminal enables to be supported **(See Uchida's figure 7, col.9 lines 4-5 where the mobile station requests rate change)**; the wireless base station notifies the wireless communication terminal of a determination result of the determination section **(See Uchida's col.2 lines 14-67)**; and the wireless communication terminal determines the transmission rate on the wireless communication line from the wireless communication terminal to the wireless base station based on the determination result notified from the wireless base station **(See Uchida's figure 7, col.9 lines 4-5 where the mobile station requests rate change)**.

With respect to claim 2, Uchida discloses a wireless communication system configured from a wireless base station and a wireless communication terminal (**See Uchida's figure 1 and 2, col.9 lines 37-67**), wherein a wireless communication line is set between the wireless base station and the wireless communication terminal (**See Uchida's figure 1 and 2, col.9 lines 37-67**), the wireless communication terminal comprises: a terminal transmission rate notify section that notifies the wireless base station of a transmission rate required by the wireless communication terminal on the wireless communication line from the wireless communication terminal to the wireless base station when the wireless base station and the wireless communication terminal exchange their mutual state information (**See Uchida's col.2 lines 14-67**); and a transmission rate determination section that determines a transmission rate on the wireless communication line from the wireless communication terminal to the wireless base station (**See Uchida's figure 7, col.9 lines 4-5 where the mobile station requests rate change**), and the wireless base station comprises: a determination section that determines whether or not the transmission rate notified from the wireless communication terminal enables to be supported (**See Uchida's col.2 lines 14-67**) ; and a determination result notify section that notifies the wireless communication terminal of a determination result of the determination section (**See Uchida's col.2 lines 14-67**), wherein the transmission rate determination section determines the transmission rate on the wireless communication line from the wireless communication terminal to the wireless base station based on the determination result notified from the

wireless base station **(See Uchida's figure 7, col.9 lines 4-5 where the mobile station requests rate change).**

With respect to claim 3, Uchida discloses a wireless communication system wherein the wireless communication terminal notifies the wireless base station of the transmission rate required by the wireless communication terminal on the wireless communication line from the wireless communication terminal to the wireless base station when power of the wireless communication terminal is turned on, and determines the transmission rate on the wireless communication line from the wireless communication terminal to the wireless base station based on the determination result notified from the wireless base station **(See Uchida's figure 7, col.9 lines 4-5 where the mobile station requests rate change).**

With respect to claim 4, Uchida discloses a wireless communication system wherein the terminal transmission rate notify section notifies the wireless base station of a state information request message including the transmission rate required by the wireless communication terminal on the wireless communication line from the wireless communication terminal to the wireless base station **(See Uchida's figure 7, col.9 lines 4-5 where the mobile station requests rate change).**

With respect to claim 5, Uchida discloses a wireless communication system wherein the wireless communication terminal comprises a request transmission rate transmission section **(See Uchida's figure 7, col.9 lines 4-5 where the mobile station requests rate change)** that retransmits a request of a transmission rate lower than the transmission rate required by the wireless communication terminal when the

determination result from the wireless base station section shows that the transmission rate does not enable to be supported **(See Uchida's figure 7, col.9 lines 4-5, figure 1)**.

With respect to claim 8, Uchida discloses a wireless communication system wherein when power of the wireless communication terminal is turned on, the wireless communication terminal notices the wireless base station of the transmission rate required by the wireless communication terminal on the wireless communication line from the wireless communication terminal to the wireless base station **(See Uchida's figure 7, col.9 lines 4-5, figure 1, col.4 lines 15-17)**, and determines the transmission rate on the wireless communication line from the wireless communication terminal to the wireless base station based on the determination result noticed from the wireless base station **(See Uchida's figure 7, col.9 lines 4-5, figure 1)**.

With respect to claim 9, Uchida discloses a wireless communication system wherein the terminal transmission rate notify section notifies the wireless base station of a state information request message including the transmission rate required by the wireless communication terminal on the wireless communication line from the wireless communication terminal to the wireless base station **(See Uchida's figure 7, col.9 lines 4-5 where the mobile station requests rate change)**.

With respect to claim 10, Uchida discloses a wireless communication terminal comprising: an inherent request transmission rate transmission section that retransmits a request of a transmission rate lower than the transmission rate required by the wireless communication terminal when the determination result from the wireless base station section shows that the transmission rate does not enable to be

supported **(See Uchida's figure 7, col.9 lines 4-5 where the mobile station requests rate change).**

With respect to claim 14, Uchida discloses a transmission rate control method wherein the wireless communication terminal notifies the wireless base station of the transmission rate required by the wireless communication terminal on the wireless communication line from the wireless communication terminal to the wireless base station when power of the wireless communication terminal is turned on **(See Uchida's figure 1 and 2, col.9 lines 37-67)**, and determines the transmission rate on the wireless communication line from the wireless communication terminal to the wireless base station based on the determination result notified from the wireless base station **(See Uchida's figure 1 and 2, col.9 lines 37-67).**

With respect to claim 15, Uchida discloses a wireless communication system wherein the terminal transmission rate notify section notifies the wireless base station of a state information request message including the transmission rate required by the wireless communication terminal on the wireless communication line from the wireless communication terminal to the wireless base station **(See Uchida's figure 7, col.9 lines 4-5 where the mobile station requests rate change).**

With respect to claim 16, Uchida discloses a wireless communication system wherein the wireless communication terminal retransmits a request of a transmission rate lower than the transmission rate required by the wireless communication terminal when the determination result from the wireless base station section shows that the

transmission rate does not enable to be supported (**See Uchida's figure 7, col.9 lines 4-5 where the mobile station requests rate change, figure 1**).

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

10. A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sayed T. Zewari whose telephone number is 571-272-6851. The examiner can normally be reached on 8:30-4:30.

12. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester G. Kincaid can be reached on 571-272-7922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2617

13. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sayed T Zewari/
Examiner, Art Unit 2617

June 26, 2008

/Nick Corsaro/
Supervisory Patent Examiner, Art Unit 2617